

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau

10/506513

(43) International Publication Date  
18 September 2003 (18.09.2003)

PCT

(10) International Publication Number  
WO 03/076644 A2

- (51) International Patent Classification<sup>7</sup>: C12Q
- (21) International Application Number: PCT/US03/06667
- (22) International Filing Date: 5 March 2003 (05.03.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/361,335 5 March 2002 (05.03.2002) US
- (71) Applicant (for all designated States except US): APPLERA CORPORATION [US/US]; c/o Celera Genomics, 45 West Gude Drive, C2-4#21, Rockville, MD 20850 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): QI, Rong [CN/US];

c/o Celera Genomics, 45 West Gude Drive, C2-4#21, Rockville, MD 20850 (US). YAN, Chunhua [CN/US]; c/o Celera Genomics, 45 West Gude Drive, C2-4#21, Rockville, MD 20850 (US). NEELAM, Beena [GB/US]; c/o Celera Genomics, 45 West Gude Drive, C2-4#21, Rockville, MD 20850 (US).

(74) Common Representative: APPLERA CORPORATION; c/o Celera Genomics, Wayne W. Montgomery, Assistant Secretary, 45 West Gude Drive, C2-4#21, Rockville, MD 20850 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE,

[Continued on next page]

(54) Title: ISOLATED HUMAN TRANSPORTER PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS, AND USES THEREOF

```

1 ATGGTGTCTCT CCCAGGAGGA GCCGGACTCC GCGCGGGGCA CGAGCGAGGC
51 GCAGCCGCTC GGGCCCCGGC CCACGGGGGC CGCTCCGGCG CCCGGGCGCG
101 GACCCCTCGGA CAGCCCCGAG GCGGCTGTGC AGAAGGTGGA GGTGGAGCTG
151 GCGGGGCGCG CGACCGCGGA GCCCCATGAG CCCCCGGAAC CCCCGGAGGG
201 CGGCTGGGGC TGGCTGGTGA TGCTGGCGGC CATGTGGTGC AACGGGTCCG
251 TGTTCGGCAT CCAGAAGCCT TGCGGGGTGC TCTTCGTGTC CATGTGGAA
301 ACCTTCGGCT CCAAAGACGA TGACAAGATG GTCTTTAAGA CAGCAGCATG
351 GGTAGGTTCT CTCTGCATGG GGATGATTTT CTTTTCCTGC CCAATAGTCA
401 GCGTETTCAC AGAGCTATTT GGTGTGCGA AAACAGCTGT CGTGGGTGCT
451 GCTGTGGAT TTGTTGGGCT CATGTCCAGT TCTTTTGTA GTTCCATCGA
501 GCCTCTGTAC CTTACCTATG GAATCATATT TGCCTGCGGC TGCTCCTTTG
551 CATACCCAGC TTCAATGGTC ATTTTGGGAC ACTATTTCAA GAAGCGCCTT
601 GGACTGGTGA ATGGCATTGT CACTGCTGGC AGCAGTGTCT TCACAATCCT
651 GCTGCCCTTG CTCTTAAGGG TTCTGATTGA CAGCGTGGGC CTCTTTTACA
701 CATTGAGGGT GCTCTGCATC TTCTGTTTG TTCTCTTTCT GGCTGGCTTT
751 ACTTACCGAC CTCTTGCTAC CAGTACCAAA GATAAAGAGA GTGGAGGTAG
801 CGGATCCTCC CTCTTTTCCA GGAAAAAGTT CAGTCCTCCA AAAAAAATTT
851 TCAATTTTGC CATCTTCAAG GTGACAGCTT ATGCAGTGTG GGCAGTTGGA
901 ATACCACTTG CACTTTTGGG ATACTTTGTG CCTATGTTC ACTTGATGAA
951 ACATGTAAT GAAAGATTTC AAGATGAAAA AAATAAAGAG GTTGTCTCA
1001 TGTGCATTGG CGTCACCTCA GGAATTGGAC GACTGCTCTT TGGCCGGATT
1051 GCAGATTATG TGCCTGGTGT GAAAGAGGTT TATCTACAGG TACTCTCCTT
1101 TTTCTTCATT GGTCTGATGT CCAATGATGAT TCCTCTGTGT AGCATCTTTG
1151 GGGCCCTCAT TGCTGTGTGC CTCATCATGG GTCTCTTCTG TGGATGCTTC
1201 ATTTCCATTA TGGCTCCCAT AGCCTTTGAG TTAGTTGGTG CCCAGGATGT
1251 CTCCTCAAGCA ATTGGATTTC TGCTCGGATT CATGTCTATA CCCATGACTG
1301 TTGGCCCAACC CATTGCAGGG TTAATTCTGG ACAAACCTGG CTCCTATGAT
1351 GTGGCAATCT AACTCGGTGG AGTCCCTCC CTTATTGGAG GTGCTGTGCT
1401 TTGTTTATC CCGTGGATCC ATAGTAAGAA GCAAAGAGAG ATCAGTAAAA
1451 CCACTGGAAA AGAAAAGATG GAGAAAATGT TGGAAAAACA GAACTCTCTG
1501 CTGTCAAGTT CATCTGGAAT GTTCAAGAAA GAATCTGACT CTATTATTTA
1551 A (SEQ ID NO: 1)

```

FEATURES:  
Start Codon: 1  
Stop Codon: 1549

(57) Abstract: The present invention provides amino acid sequences of peptides that are encoded by genes within the human genome, the transporter peptides of the present invention. The present invention specifically provides isolated peptide and nucleic acid molecules, methods of identifying orthologs and paralogs of the transporter peptides, and methods of identifying modulators of the transporter peptides.

WO 03/076644 A2